DoDFM Advanced Enhanced (AE)

AUTOMATED FUELS SERVICE STATION

VIL Encoding Guide

TRADEMARK ACKNOWLEDGEMENTS

Getting Started

Software Installation – Install the Department of Defense FuelMaster® Advanced Enhanced (DoDFM AE) software by inserting the CD-ROM into the personal computer CD-ROM drive. The FuelMaster® applications software program is self-executing and will begin once the CD-ROM drive is closed. If the program fails to self-execute, from Explorer select the CD-ROM drive and double click the file named *Setup.exe*.

Startup

1. To start the Department of Defense (DoD) FuelMaster (FM) Advanced Enhanced (AE) applications software program (DoDFM AE):

   a. From the desktop, double click the DoDFM AE Icon (Figure 1).

Figure 1 - DoDFM AE Icon

   b. From the start bar, highlight programs, then highlight DoDFM AE and click the DoDFM AE menu selection (Figure 2).
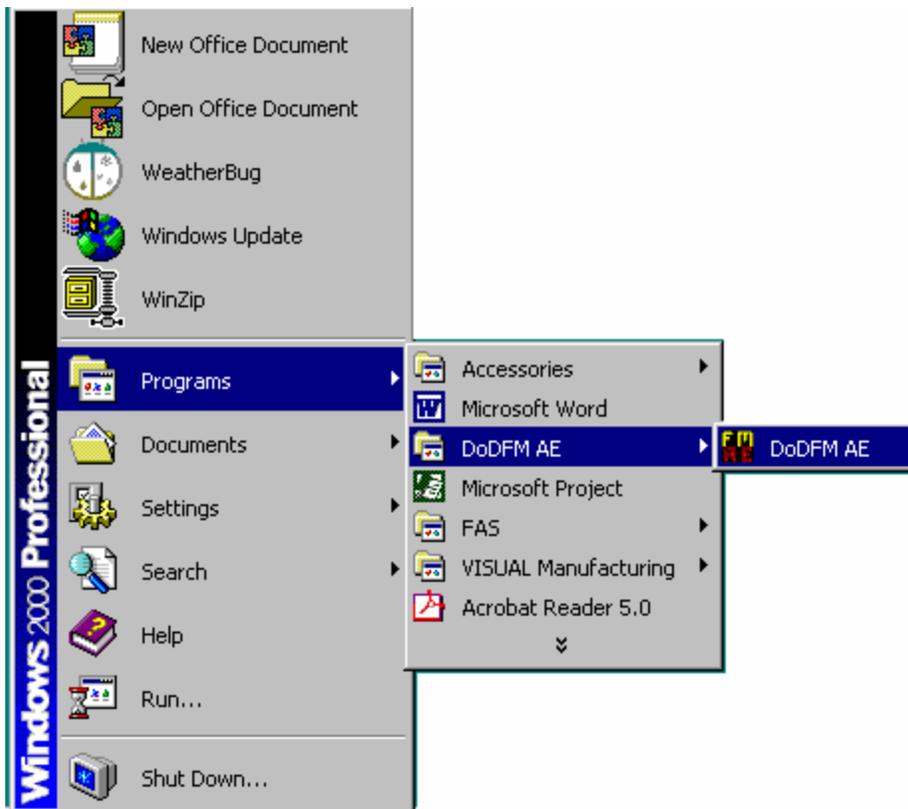
Figure 2 - Start Bar with DoDFM AE Highlighted

2. From the DoDFM AE logo screen (Figure 3) enter the User Name and Password and click OK or press enter. **Note:** The default User Name is "admin" and the default Password is "admin", each in lower case letters.
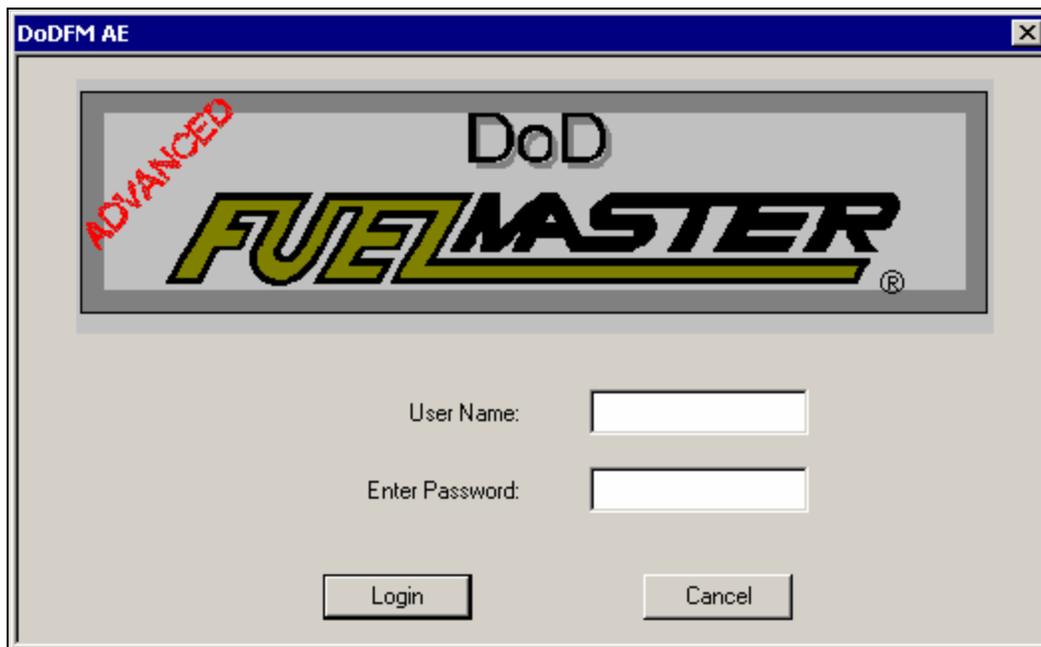
Figure 3 - DoDFM AE Logo Screen

3. When the UserID and Password are accepted and the OK button depressed, the DoDFM AE Main Menu screen is displayed (Figure 4).

Figure 4 - DoDFM AE Main Menu Screen

Encoding Vehicle VILs:

1. From the VIL Operations drop down menu, highlight and select the "Vehicle VIL listing…" option or select the VIL Icon from the DoDFM AE main menu (Figure 5).

Figure 5 – VIL Operations Drop Down Selection Menu - Vehicle VIL Listing

2. Selecting the Vehicle VIL List option, the Config VIL list option or the Mobile VIL list option from the VIL Operations drop down menu will display the Vehicle Listing dialog box (Figure 6), the Config VIL listing dialog box or the Mobile VIL listing dialog box, respectively, providing several options to the user. Those options are the same in each dialog box as follows:
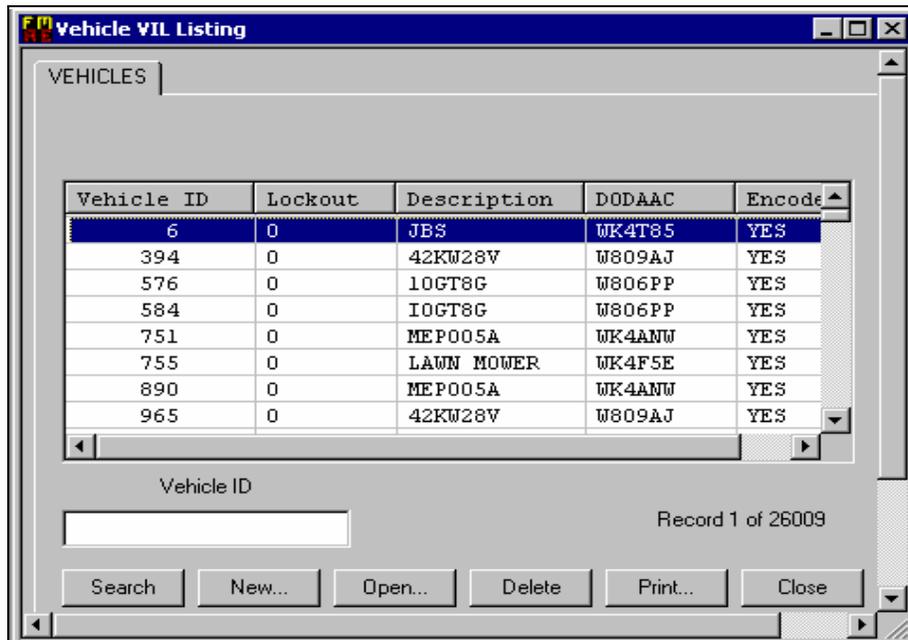
Figure 6 – Vehicle Listing Selection Menu

A. **Search** - Enter a vehicle ID and select the "Search" button to find a VIL that has already been entered into the database or highlight an entered vehicle and double click to display the VEHICLE VIL – DoD Standard dialog box (Figure 7).

B. **New** - Enter a vehicle ID and then select the "New" button to enter data related to a VIL.

C. **Open** - Select the "Open" button or double click on the highlighted entry to display the VEHICLE VIL – DoD Standard dialog box with selected vehicle data pre-filled (Figure 7).

D. **Delete** – Highlight the entry and select the "Delete" button to delete a database entry.

E. **Print** - Select the "Print" button to print the entire vehicle listing contained in the database.

F. **Close** - Exits the VEHICLE VIL LISTING dialog box and returns the user to the DoDFM AE Main Menu (see Figure 4).

3. The VEHICLE VIL – DoD Standard dialog box (Figure 7) contains three tabs in the upper left-hand corner of the screen. Those tabs are General (Figure 7), Grades (Figure 8) and Misc or miscellaneous (Figure 9).

   a. **General Tab** – The General tab permits the user to input the bulk of the data required to create the transaction.
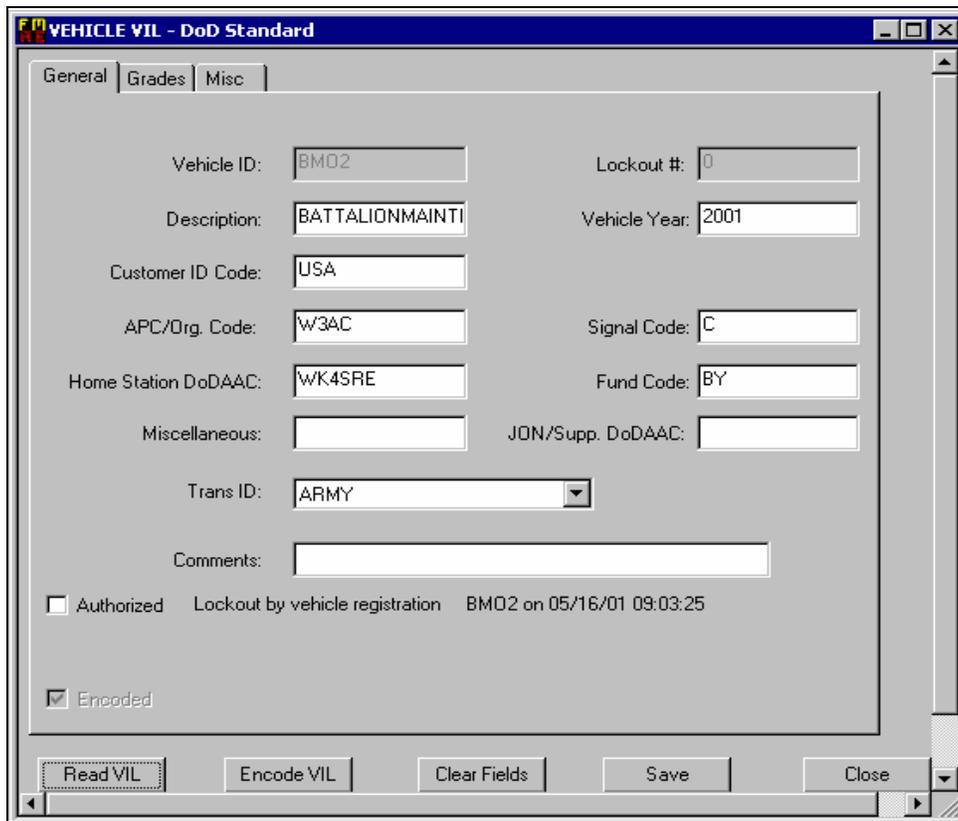
Figure 7 - Vehicle VIL - DoD Standard Dialog Box, General Tab

- **Vehicle Registration # (8A/N):** Enter up to eight alphanumeric characters that represent the unique vehicle/equipment registration number.
- **Description (25 A/N):** Enter up to 25 alphanumeric characters to describe the owning unit/organization of the vehicle/equipment.
- **Customer ID Code (3A/N):** Enter the three character alphanumeric Customer Identification Code. I.E., USA, USN, USM, etc…
- **Organization/APC Code (4A/N):** Enter up to four alphanumeric characters that correspond to the Organization Code or Account Processing Code (APC).
- **Home Station DODAAC (6A/N):** Enter the Department of Defense Activity Address Code for the equipment.
- **Miscellaneous (6A/N): Optional field -** Enter up to six alphanumeric characters that can be used to further stratify a transaction or set of transactions.
- **Trans ID (selectable window):** Select the Transaction Identification Code from the list in the pull-down window. The Transaction Identification Code corresponds to the primary use of the vehicle/equipment.
- **Comments (50 A/N):** Enter up to 50 characters to further explain any other data/use of the vehicle/equipment.
- **Check Boxes:**
  - **Authorized Check Box** - Check the check box "authorized" to validate the issue of the VIL. Un-checking this box will automatically lockout the VIL and write the vehicle ID and lockout code into the VIL Lock List Report. Locking out a VIL will require the user to upload the lock list to the Vehicle Identification Reader(s) (VIRs).
  - **Encoded Check Box** – The encoded check box is assigned under program control and is always grayed out. If the VIL has physically been encoded the box will be checked and date and time of encoding provided. If the box is not checked the data has been saved to the database, however; the VIL has not been encoded.
- **Lockout (2N):** The Lockout number is stored on the VIL and corresponds to the vehicle registration # for lockout purposes. The first encoding of a VIL will possess a corresponding lockout number of 0, the second a 1, and so on, up to 16. The Lockout number enables the operator to encode subsequent valid VILs for the same vehicle and permits the system operator to lockout (render invalid) lost or stolen VILs. The Lockout number is automatically assigned in the DoDFM AE applications software.
- **Vehicle Year (4N):** Only valid entries indicating the four character model year of the vehicle between 1900 and 2200 are accepted.
- **Signal Code (1A/N):** Enter the single character alpha or numeric Signal Code.
- **Fund Code (2A/N):** Enter the two-character alphanumeric fund code. For ARMY, enter 'AA' if fund code is unknown.
- **JON/Supp DoDAAC (6A/N):** The JON or Job Order Number is Primarily for NAVY use. Enter up to six alphanumeric characters that correspond to the JON. Other users may use this field to enter the supplemental DoDAAC.

b. **Grades Tab** – From the Grades window select each of the fuel types for which this VIL will be authorized fuel, no more than eight. To encompass any category of fuel that the vehicle may encounter, use the Super Grade (SG) designator for each product. Each Super Grade also possesses a number of 'X' grade codes that can be assigned to a product or pump in the event that the DFAMS grade is not listed. Additionally, six 'X' grade codes (X22-X27) have been added to the system, but are unassigned to a Super Grade. The following Super Grade codes and their use is explained below:
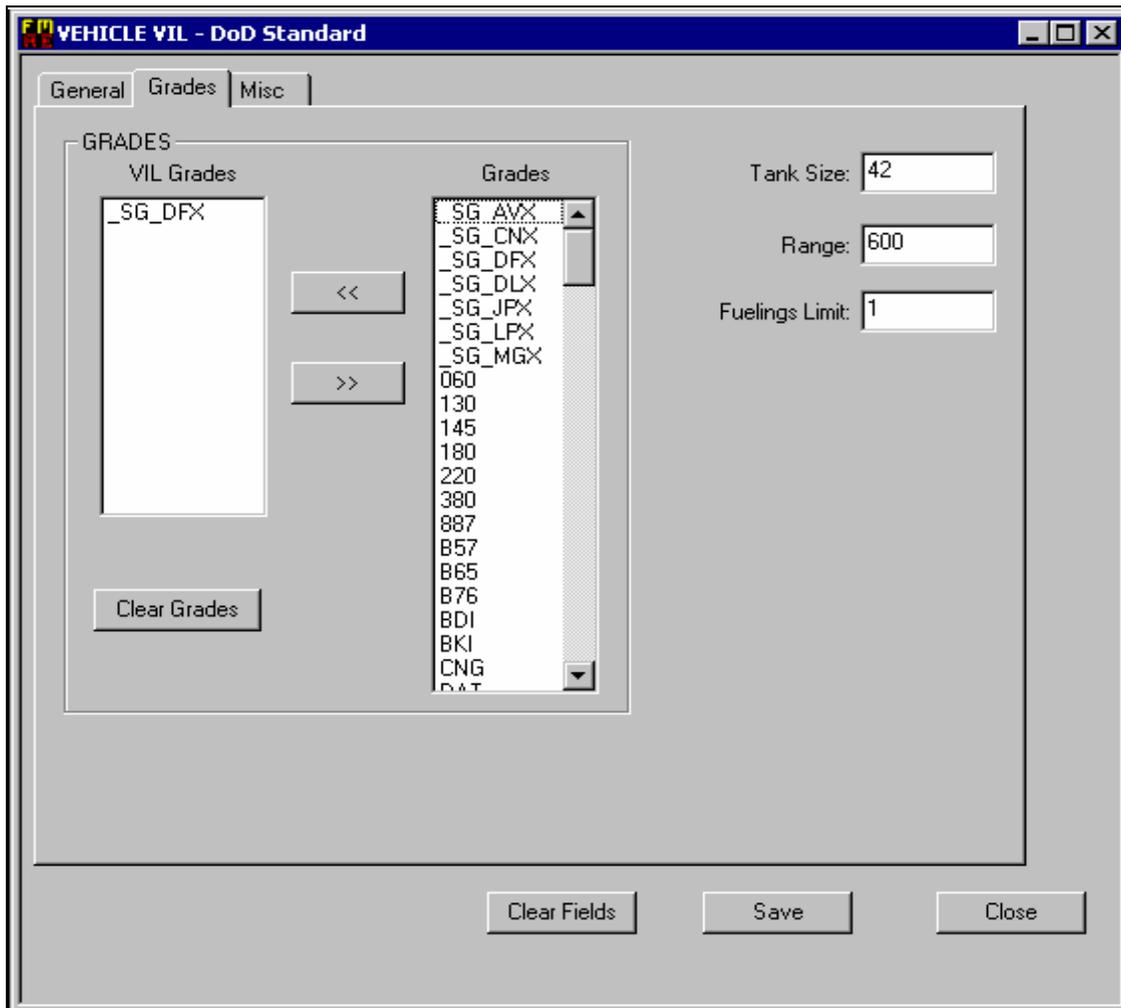

Figure 8 - Vehicle VIL - DoD Standard Dialog Box, Grades Tab

1. **_SG_AVX** – Equates to all grade codes that are relevant to Aviation Gasoline.
2. **_SG_CNX** - Equates to all grade codes that are relevant to Compressed Natural Gas.

3. **_SG_DFX** – Equates to all grade codes that are relevant to ALL diesel fuels including low sulfur diesel and JP8.
4. **_SG_DLX** – Equates to all grade codes that are relevant to *low sulfur diesel fuels only.*
5. **_SG_JPX** – Equates to all grade codes that are relevant to jet fuels.
6. **_SG_LPX** – Equates to all grade codes that are relevant to Liquid Propane Gas.
7. **_SG_MGX** – Equates to all grade codes that are relevant to Motor Gasoline (MOGAS) and Gasohol.

The following list of Super Grade Codes depicts which grade codes are assigned to each Super Grade Code.

_SG_MGX	**_SG_DFX**	**_SG_DLX**	**_SG_CNX**	**_SG_LPX**	**_SG_JPX**	*SG*AVX	unassigned
B57	60	DL1	CNG	LPG	J50	130	X22
E85	180	DL2	NAG	X13	JA1	145	X23
F57	220	DLA	X10	X14	JAA	887	X24
GUM	380	DLS	X11	X15	JAB	X19	X25
GUP	B65	DLW	X12		JB8	X20	X26
GUR	B76	HS1			JBA	X21	X27
GUS	BDI	HS2			JP4		
M-1	BKI	LS1			JP5		
M-3	DAT	LS2			JP7		
MBP	DB1	LS8			JP8		
MEG	DB2	LSS			JTS		
MG1	DEG	LSW			X16		
MG2	DF1	X07			X17		
MG3	DF2	X08			X18		
MG4	DF8	X09					
MG5	DFA						
MG6	DFR						
MG7	DFW						
MGB	DG2						
MGG	DJ1						
MGL	DJ2						
MGP	DKR						
MGR	DKW						
MGU	DL1						
MGX	DL2						
MLP	DLA						
MLR	DLS						
MMR	DLW						
MPR	F65						
MRR	F76						
MTP	FJ1						

MUG	FJ3
MUI	FL4
MUM	FL5
MUP	FS1
MUR	FS2
MUS	FS4
UKL	FS5
UKU	FS6
X01	HS1
X02	HS2
X03	J50
	JP5
	JP8
	KJ1
	KJ2
	KS1
	KSD
	KSN
	KSR
	KTN
	LS1
	LS2
	LS8
	LSS
	LSW
	MGO
	PS1
	PS2
	PS3
	RME
	T54
	UKD
	UKK
	X04
	X05
	X06

In addition, there are three entry boxes; Tank Size, Range and Fuelings Limit. These entry boxes are used to capture data that are used when generating exception reports. At no time will a vehicle or piece of equipment be denied fuel should these parameters be exceeded. There functions are:

1. **Tank Size** – Input up to nine characters that indicates the fuel tank capacity of the vehicle.
2. **Range** – Enter the maximum mileage range that the vehicle

should travel between fuelings.

3. **Fuelings Limit** – Enter the number of times the vehicle can get fuel per day at the primary fueling site.

c. **Misc (Miscellaneous) Tab** – The Misc tab of the VEHICLE VIL – DoD Standard screen contains three check boxes, a drop down menu and a reissue count line. Each function is used as follows:

1. **Authorized Check Box** - Check the check box "authorized" to validate the issue of the VIL. Un-checking this box will automatically lockout the VIL and write the vehicle ID and lockout code into the VIL Lock List Report. Locking out a VIL will require the user to upload the lock list to the Vehicle Identification Reader(s) (VIRs).

2. **Encoded Check Box** – The encoded check box is assigned under program control and is always grayed out. If the VIL has physically been encoded the box will be checked and date and time of encoding provided. If the box is not checked the data has been saved to the database, however; the VIL has not been encoded.

3. **Expiration Date** – Checking the expiration date will highlight the drop down menu and permit the user to select an expiration date from the calendar menu. If the drop down menu is not highlighted, the expiration date is indefinite and the VIL will never expire. By checking the Expiration Date check box the user is indicating that the VIL will no longer be a valid VIL to the system after the date annotated.

4. **Reissue Count** – Provides the number of times that a VIL has been issued for a specific vehicle registration number.
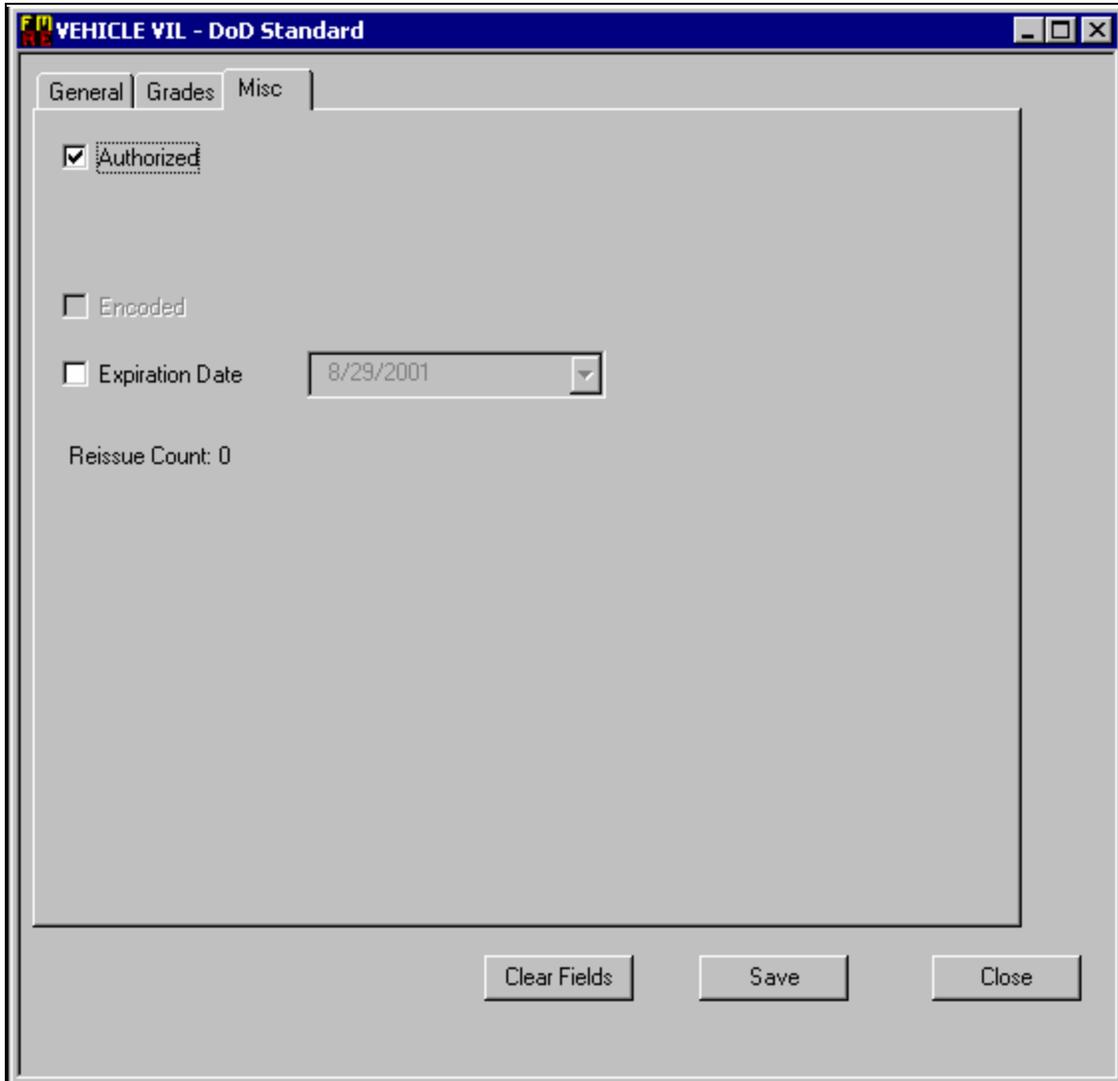
Figure 9 - Vehicle VIL - DoD Standard Dialog Box, Misc Tab

4. Once all data has been entered for a specific VIL, one of three selection buttons arranged across the bottom of the VEHICLE VIL - DoD Standard dialog box can be invoked. Their functions are:

  a. **Clear Fields** - Clears all fields in the Vehicle VIL - DoD Standard dialog box (Figures 7-9).

  b. **Save** – Saves the data input on the VEHICLE VIL - DoD Standard screens to the DoDFM AE database for future encoding of a VIL and retention (Figures 7-9).

  c. **Close** - Exits the VEHICLE VIL - DoD Standard dialog box and returns the user to the DoDFM Adv Main Menu (see Figure 4).

Encoding Configuration VILs:

1.   From the VIL Operations drop down menu, highlight and select the "Config VIL List" option or select the Config Icon from the DoDFM AE main menu screen (Figure 10).


Figure 10 - Operations Drop Down Selection Menu - Config VILs

2.   Selecting the Config VIL list option from the VIL Operations drop down menu will display the Config VIL listing dialog box providing several options to the user.
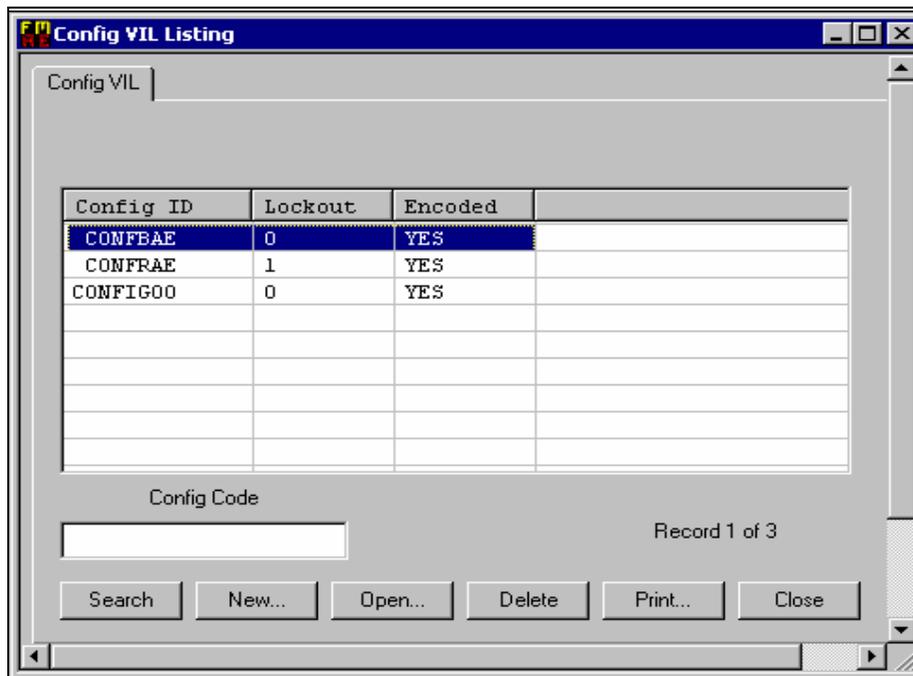

Figure 11 - Config VIL Listing Dialog Box

A. **Search** - Enter a Config Code and select the "Search" button to find a Configuration VIL that has already been entered into the database or highlight an entered Configuration VIL and double click to display the CONFIG VIL – DoD Standard dialog box (Figure 12).

B. **New** - Enter a Config Code and select the "New" button to enter data specific to a Configuration VIL.

C. **Open** - Select the "Open" button or double click on the highlighted entry to display the CONFIG VIL – DoD Standard dialog box with the selected data pre-filled (Figure 12).

D. **Delete** – Highlight the entry and select the "Delete" button to delete a database entry.

E. **Print** - Select the "Print" button to print the entire vehicle listing contained in the database.

F. **Close** - Exits the CONFIG VIL LISTING dialog box and returns the user to the DoDFM AE Main Menu (see Figure 4).

NOTE: For continuity purposes enter up to 8 alphanumeric characters composed as follows: Site DoDAAC followed by a two-digit number (i.e., W82561 [DoDAAC] 01 [two digit number]). The configuration VIL code **MUST BE** entered into the VIL lockout list to become active.

2. The CONFIG VIL – DoD Standard dialog box (Figure 12) contains two grayed-out input boxes, one data input box, three check boxes, a drop down menu and five buttons. Each function is used as follows:

A. **Configuration VIL Code (grayed-out input box)** – The Configuration VIL Code is the unique number input to specify the Configuration VIL. This number will be used as the primary tag field when searching the database for Configuration VILs.

B. **Lockout (grayed-out input box)** - The Lockout number is stored on the VIL and corresponds to the vehicle registration # for lockout purposes. The first encoding of a VIL will possess a corresponding lockout number of 0, the second a 1, and so on, up to 16. The Lockout number enables the operator to encode subsequent valid VILs for the same vehicle and permits the system operator to lockout (render invalid) lost or stolen VILs. The Lockout number is automatically assigned in the DoDFM AE applications software.

C. **Comment** – Use the comment input box to further stratify and identify the use or issuance of the Configuration VIL.

D. **Authorized Check Box** - Check the check box "authorized" to validate the issue of the Configuration VIL. Un-checking this box will automatically lockout the Configuration VIL and write the vehicle ID and lockout code into the VIL Lock List Report. Locking out a Configuration VIL will require the user to upload the lock list to the Vehicle Identification Reader(s) (VIRs).

E. **Encoded Check Box** – The encoded check box is assigned under

program control and is always grayed out. If the Configuration VIL has physically been encoded the box will be checked and date and time of encoding provided. If the box is not checked the data has been saved to the database, however; the Configuration VIL has not been encoded.

F. **Expiration Date** – Checking the expiration date will highlight the drop down menu and permit the user to enter an expiration date. If the drop down menu is not highlighted, the expiration date is indefinite and the Configuration VIL will never expire.   By checking the Expiration Date check box the user is indicating that the Configuration VIL will no longer be a valid Configuration VIL to the system after the date annotated.
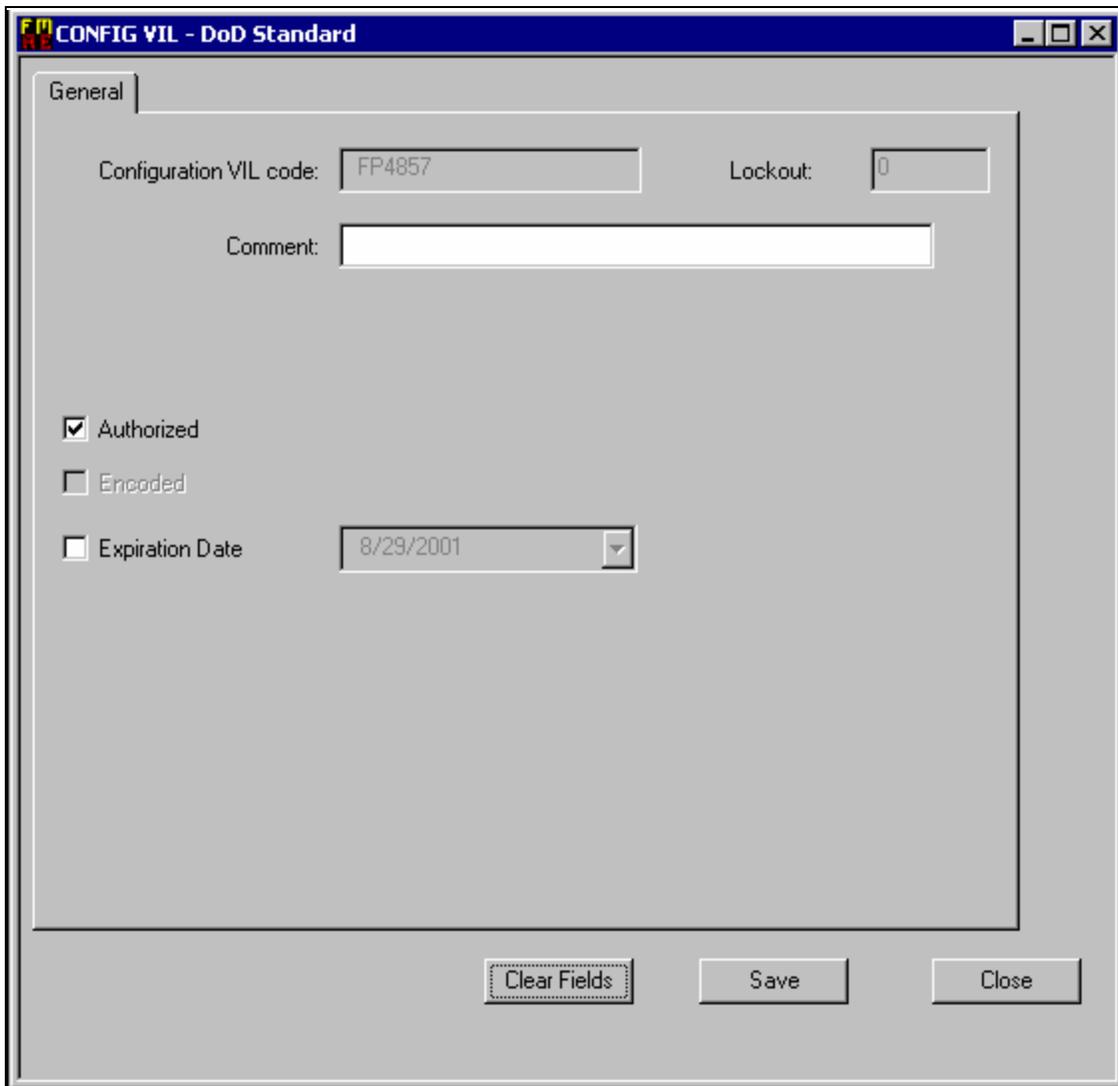
Figure 12 - CONFIG VIL - DoD Standard Dialog Box

5.   Once all data has been entered for a specific Configuration VIL, one of three

selection buttons arranged across the bottom of the CONFIG VIL - DoD Standard dialog box should be invoked. Their functions are:

a. **Clear Fields** - Clears fields in the CONFIG VIL - DoD Standard dialog box (Figures 17).

b. **Save** – Saves the data input on the CONFIG VIL - DoD Standard screens to the DoDFM AE database for future encoding of a VIL and retention (Figures 17).

c. **Close** - Exits the CONFIG VIL - DoD Standard dialog box and returns the user to the DoDFM Adv Main Menu (see Figure 4).